

22 February 1988

MEMORANDUM FOR: Chief, Operations, Facilities Management Division, OL

FROM:

OL, New Building Project Office

SUBJECT: Sterilization of Domestic Water System  
at the New Headquarters Building

1. Chlorination and sterilization of the Domestic Water System at the NHB was accomplished on the weekend of February 5, 1988.

2. Enclosed, please find for your information and records, two copies of the sterilization test report prepared by Combustioneer, Water Treatment Division, who was tasked by Pierce Mechanical Contractors Associates, for the chlorination.

Enclosure

cc: Originator w/enclosure

OL/NBPO 22Feb88

Orig - Adse

1 - OL/NBPO Subject w/enclosure

1 - OL/NBPO Chrono



Services Capital  
Administration Region Washington, DC 20407

Date : February 17, 1988  
Reply to :  
Attn of : Arthur J. Carlucci, Project Manager, HQ Expansion Project  
Subject: Sterilization of Domestic Water System

STAT :  Deputy Chief, NBPO

Transmitted herewith are the following:

1. Centex transmittal letter, dated February 15, 1988.
2. Pierce Associates' letter, dated February 10, 1988.
3. Test results of domestic water sterilization as submitted by Combustioneer, Water Treatment Division.

The chlorination of the subject system was accomplished over the weekend commencing on February 5, and was completed on February 8, 1988. Subject chlorination is a requirement of Section 15400, Lines 57 through 71.

The attached is being forwarded for your information and files.

Enclosures

**CENTEX CONSTRUCTION COMPANY, INC.**

February 15, 1988

**PLEASE ADDRESS REPLY TO:**

P.O. BOX 6510  
McLEAN, VA 22106-6510  
Phone: (703) 448-6810

Arthur J. Carlucci, Project Manager  
New Building Project Field Office  
Room 3E40, Headquarters Building  
Central Intelligence Agency  
Washington, D.C. 20505

Re: CIA Headquarters Building  
Bid Package 2  
Langley, Virginia  
Contract No. GS-11B-19066

Subj: Sterilization Of Domestic  
Water System

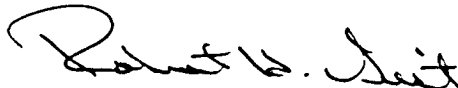
Gentlemen:

Attached herewith, please find 3 copies each of Sterilization Reports as forwarded by Pierce Associates dated February 10, 1988.

These reports are for your files and information only.

Very truly yours,

CENTEX CONSTRUCTION COMPANY, INC.



Robert H. Gist  
Project Manager

RHG:dob

Attachment

cc: Merrifield Office

FEB 16 1988

**MECHANICAL CONTRACTORS**

**SSOCIATES.**

4216 Wheeler Avenue, P.O. Box 9050  
Alexandria, Virginia 22304  
Area code 703—751-2400

February 10, 1988

Centex Construction Company  
P.O. Box 6510  
McLean, Virginia 22106-6510

Reference: Central Intelligence Agency  
PA #8503; MQ-556  
Sterilization

Gentlemen:

We have completed the sterilization of the domestic water piping system as required by Project Specification Section 15400, lines 58 thru 71.

We enclose three (3) copies of the sterilization test report dated February 5 & 8, 1988 as prepared by Combustioneer. Please forward this report to GSA for their records.

Very truly yours,

PIERCE ASSOCIATES, INC.

  
John F. Collins

JFC:mak  
Enclosure

JOB # *01050***combustioneer**

water treatment division

FULL SERVICE

BOILER WATER ANALYSIS REPORT

**WATER TREATMENT CHEMICALS**  
**WASTE WATER CONSULTATION**  
**CHEMICAL FEED EQUIPMENT**  
**CHEMICAL DESCALING**
**COMBUSTIONEER**

Water Treatment Division

645A Lofstrand Lane

Rockville, Maryland 20850

Telephone (301) 424-8660

Company *PIERCE ASSOCIATES*Date *FEB. 5 & 8, 1988* No. *5231*STATION *CIA*Engineer *P.O. # 8503-540*Copies to *X**DOMESTIC WATER*

ANALYSIS	RAW	MAKE-UP	FEED	<i>AFTER ADDING HYPOCHLORITE</i>		<i>AFTER FLUSHING</i>	CONDENSATE	RECOMMENDED LIMITS
pH								
P Alkalinity								
M Alkalinity								
Hardness, Tot.								
Phosphate								
Sulfite								
Chloride								
TDS Neut.								
Cond. Neut.								
<i>Chlorine after chlorination</i>				<i>50+</i>				<i>&gt; 50 ppm</i>
<i>Chlorine after flushing</i>				<i>at all fixtures</i>		<i>&lt; .2 ppm at all fixtures tested</i>		<i>&lt; .2 ppm</i>
CONTINUOUS BLOWDOWN SETTING							HOURS WORKED -	
MANUAL BLOWDOWN			Number Per Day				<i>FEB. 5 - 5 (OT)</i>	
			Time in Seconds				<i>FEB. 8 - 1 (ST)</i>	

OPERATION		PRODUCTS		DOSAGE UNITS	MATERIALS USED
Steam Generation:		Name	Inventory		<i>15-gallon sodium hypochlorite</i> <i>3-5 gallon pails with lids</i>
Pressure:					
FW Temperature:					
% Cond. Return:					
Fuel Type:					
FUEL OIL TREATMENT					
Product	Inventory	Feed Rate			

COMMENTS: - On Feb. 5, 1988 we pumped 15 gallons sodium hypochlorite in the water main starting at 5:00 pm. The plumbers then ran water at all fixtures hot and cold until we detected 50+ ppm Chlorine in the water. (9:00pm) The plumbers returned at 7:00 am Feb. 6 and proceeded to flush Chlorine from the system. Chlorine was retained in the system for 10 HRS. Domestic water analysis on Feb. 8 at 8:30 am revealed < .2 ppm Chlorine at all points tested. Sterilization of domestic water is complete.

Technical Representative: *Jeff Bush*